

ABSTRACT OF THE DISCLOSURE

In order to provide a negative resistance circuit which is not influenced by means of change of temperature and source voltage, etc., operates stably and has simple circuit construction, a first stage circuit of the negative resistance circuit is a collector-emitter dividing type amplifying circuit comprising of a npn transistor and a second stage circuit thereof is an emitter earth type amplifying circuit comprising of a pnp transistor. A collector output of the pnp transistor is connected to a base of the npn transistor to constitute a positive feedback path and is divided and is connected to an emitter of the npn transistor to constitute a negative feedback path.

An amplification factor A of the emitter earth type amplifying circuit and voltage dividing ratio β is set to be $(1+A\beta) < A$.